Abstract:

Page 34, in the abstract section, replace with the following new abstract paragraph:

--- MULTIUSER DSSS-OFDM MULTIBAND FOR ULTRA WIDEBAND COMMUNICATIONS

Abstract of the Disclosure

A multiuser direct sequence spread spectrum (DSSS) Orthogonal Frequency Division Multiplexing (OFDM) multiband of Ultra Wideband (UWB) communication system for [[a]] short-distance wireless broadband communications is disclosed for [[the]] indoor environment ~~of UWB~~ operations. Eleven ~~multi-~~frequency bands are employed, with each of the ~~multi-~~frequency bands having 650 MHz bandwidths. A 1024-point IFFT and FFT with 1,000 subcarriers are used to carry data and pilots ~~information~~ within each of the ~~multi-~~frequency bands. The multiuser DSSS-OFDM multiband of the UWB ~~base station~~ communication ~~transmitter~~ system can transmit N different users at the same time by using a unique spreading sequence for each of the N different users. A QPSK modulation is ~~employed~~ used for a different data rate with scalability. ~~in the environments of multi-frequency bands.~~ The maximum transmitting data rate of the ~~multiuser DSSS-OFDM multiband of the~~ UWB communication system ~~is up to~~ can achieve about 5.541 Gbps. ~~within the short-distance in the indoor environment.~~